Late pandemic forecast for Portugal M: multi-output M: multi-output M: repeated single-output (deaths + Google mobility) (deaths) (deaths) 2.0 2.0 2.0 per million of population Prediction Prediction Prediction Truth Truth Truth Death incidence 1.5 1.5 1.5 1.0 1.0 1.0 0.5 0.5 0.5 0.0 0.020 20 20 30 30 0 10 10 10 30 Days since June 11 2021 Days since June 11 2021 Days since June 11 2021 B: LSTM (deaths) B: Bi-LSTM (deaths) B: GRU (deaths) 2.0 2.0 2.0 per million of population Prediction Prediction Prediction Truth Truth Truth Death incidence 1.5 1.5 1.5 1.0 1.0 1.0 0.5 0.5 0.5 0.00.030 10 20 20 30 10 20 30 10 0 Days since June 11 2021 Days since June 11 2021 Days since June 11 2021 B: ARIMA wavelet **B**: Persistence 2.0 2.0 per million of population Prediction Prediction Truth Truth Death incidence 1.5 1.5 1.0 1.0 0.5 0.5 0.0

10

Days since June 11 2021

0

20

30

0

10

Days since June 11 2021

20

30